

540188

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 July 2004 (22.07.2004)

PCT

(10) International Publication Number
WO 2004/060078 A1

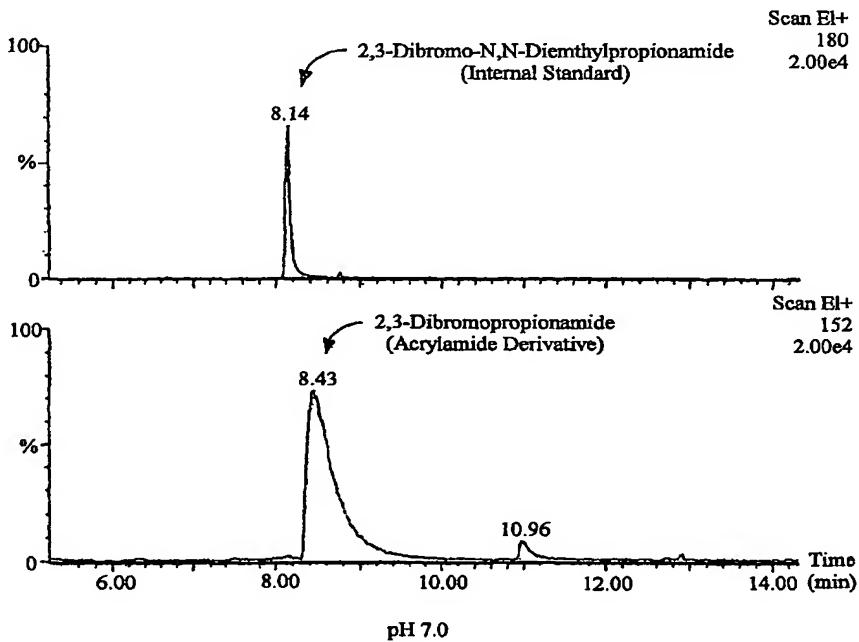
- (51) International Patent Classification⁷: **A23L 1/105**
- (21) International Application Number: **PCT/KR2003/001796**
- (22) International Filing Date: 2 September 2003 (02.09.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
- | | | |
|-----------------|-----------------------------|----|
| 10-2003-0000391 | 3 January 2003 (03.01.2003) | KR |
| 10-2003-0042189 | 26 June 2003 (26.06.2003) | KR |
- (71) Applicant and
(72) Inventor: JUNG, Mun Yhung [KR/KR]; #105-802, Sol-neamayeol Dong-ah APT., 561-24, Songchon-dong 2-ga, Dunckjin-ku, Jenonju-si, Jeollabuk-do 561-300 (KR).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): CHOI, Dong-Seong [KR/KR]; #102-703, Youngchang Dream Mansion APT., 123-12, Songchon-dong 1-ga, Duckjin-ku, Jeonju-si, Jeollabuk-do 561-300 (KR). JU, Jin-Woo [KR/KR]; ga-107,
- (74) Agent: KIM, Seog-Hyun; 9th Floor, Daekyung Building, 120, 2-ka, Taepyung-ro, Chung-ku, Seoul 100-724 (KR).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: METHOD FOR THE REDUCTION OF ACRYLAMIDE FORMATION



WO 2004/060078 A1

(57) Abstract: The present invention relates to a method for the reduction of acrylamide formation, in which a nucleophilic a-amino group (-NH₂) is protonated and converted into a non-nucleophilic amine (-NH₃₊). The inventive method has the effect of allowing the formation of acrylamide to be highly reduced by simple treatment with a pH-lowering agent. Particularly, when applied to foods or foods ingredients, the inventive method has the effect of allowing the formation of acrylamide to be highly reduced without affecting the flavor and color of the foods or foods ingredients.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.